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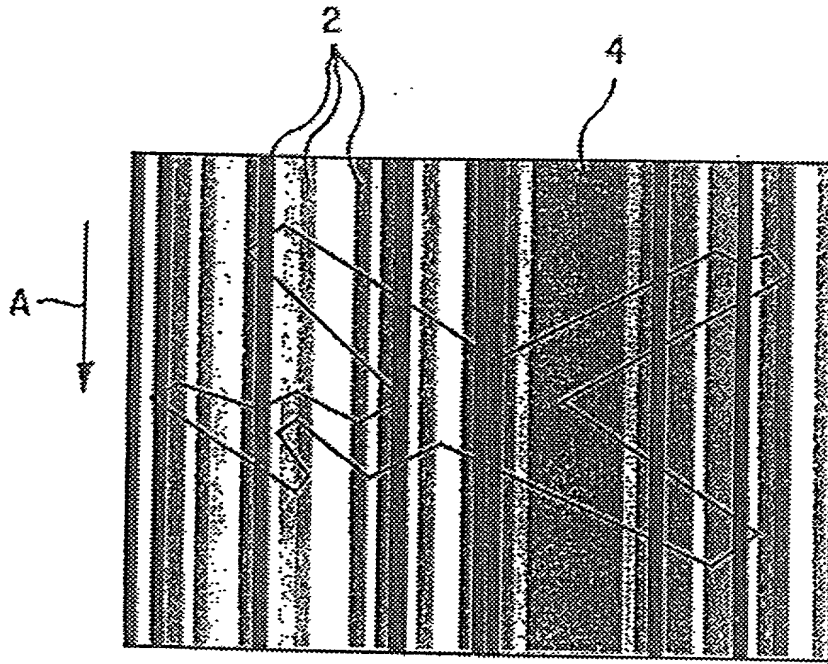


FIG. 1

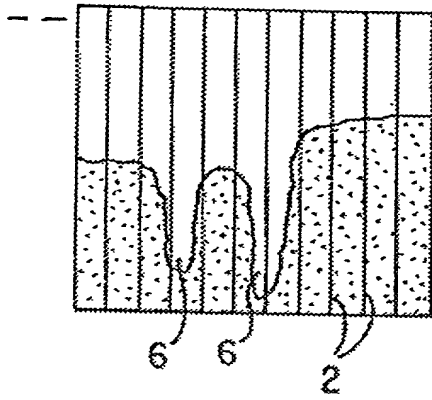


FIG. 2a

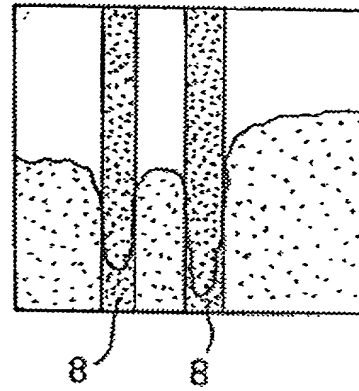


FIG. 2b

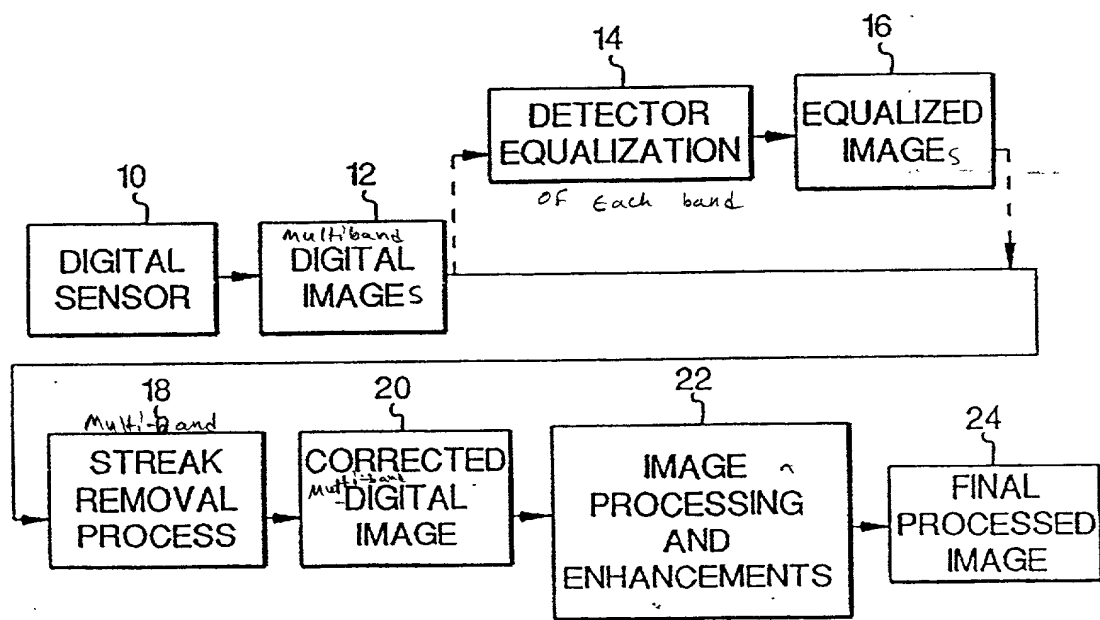


FIG. 3

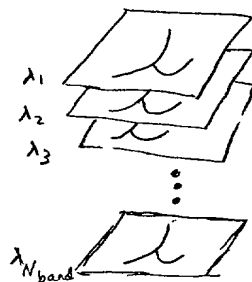


FIG. 4

IN

28

TRANSFORM MULTI-BAND DATA TO  
SPECTRALLY ADVANTAGEOUS SPACE

30

SELECT TWO ADJACENT COLUMNS  
OF IMAGE DATA

32

CREATE COLUMN OF PIXEL VALUE  
PAIRS,  $i(x,y)$  AND  $i(x+1,y)$

34

CALCULATE LOCAL MEANS,  
 $\mu(x,y,z_{ref})$ ,  $\mu(x+1,y,z_{ref})$ ,  
 $\mu(x,y,z_{test_i})$

36

CALCULATE CORRELATION  
BETWEEN BANDS

37

~~36~~

CALCULATE LOCAL DIFFERENCE  
METRIC,  $M(x,y)$

38

REMOVE PIXEL VALUES FROM COLUMN  
OF PIXEL VALUE PAIRS WHERE  $|i(x,y)-i(x+1,y)| >$   
 $T_\Delta$  OR  $M(x,y) > T_M$

40

DETERMINE INITIAL ESTIMATE OF LINEAR  
REGRESSION SLOPE  $\Delta a'_x$

42

DETERMINE INITIAL ESTIMATE OF LINEAR  
REGRESSION OFFSET  $\Delta b'_x$

44

CALCULATE STANDARD ERROR OF  
LINEAR REGRESSION,  $S_e$

B

FIG. 5A

FIG. 5B

FIG. 5

FIG. 5A

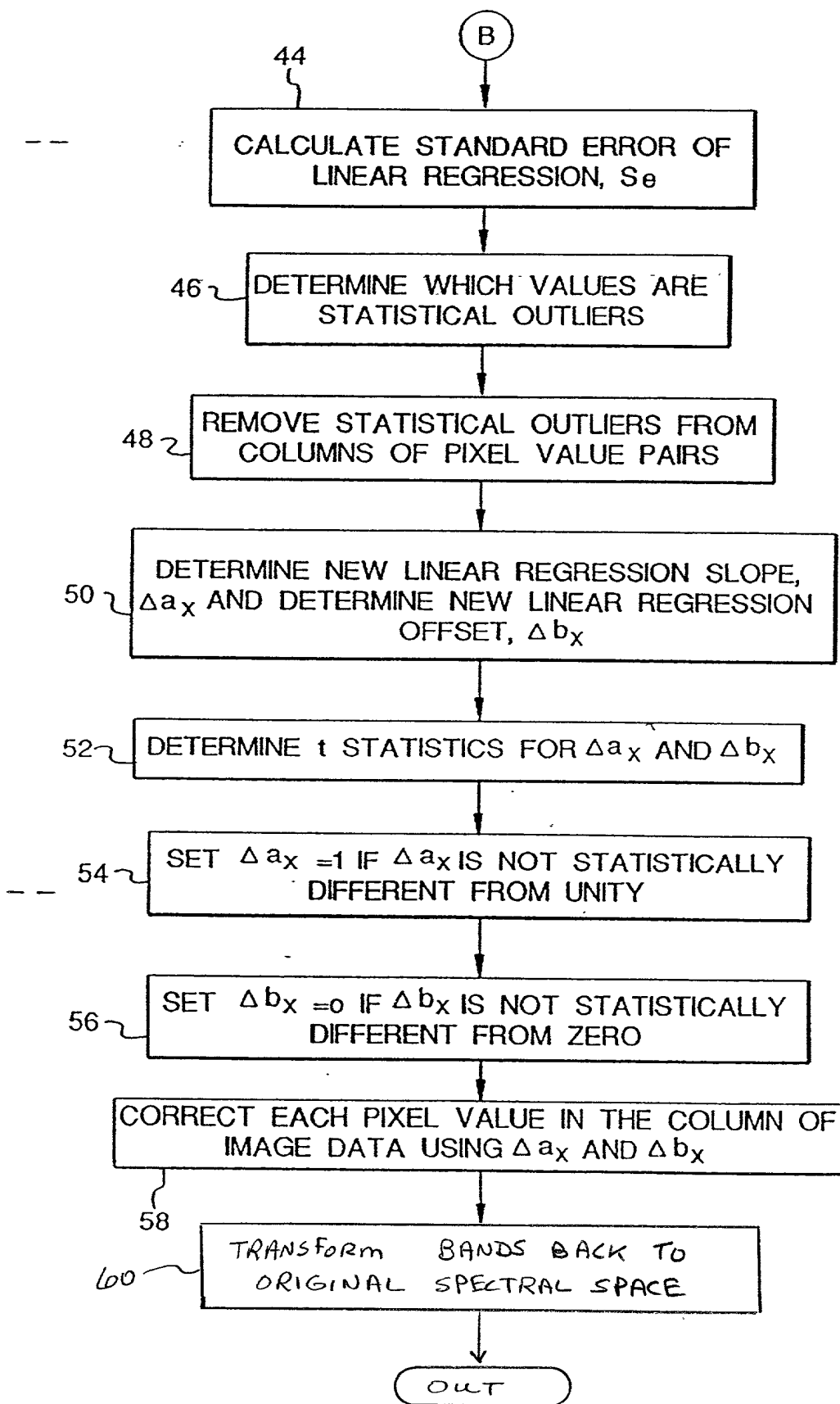


FIG. 5B

35

$i(x, y - \frac{N-1}{2})$	$i(x+1, y - \frac{N-1}{2})$
$i(x, y-1)$	$i(x+1, y-1)$
$i(x, y)$	$i(x+1, y)$
$i(x, y+1)$	$i(x+1, y+1)$
$i(x, y + \frac{N-1}{2})$	$i(x+1, y + \frac{N-1}{2})$

FIG. 6

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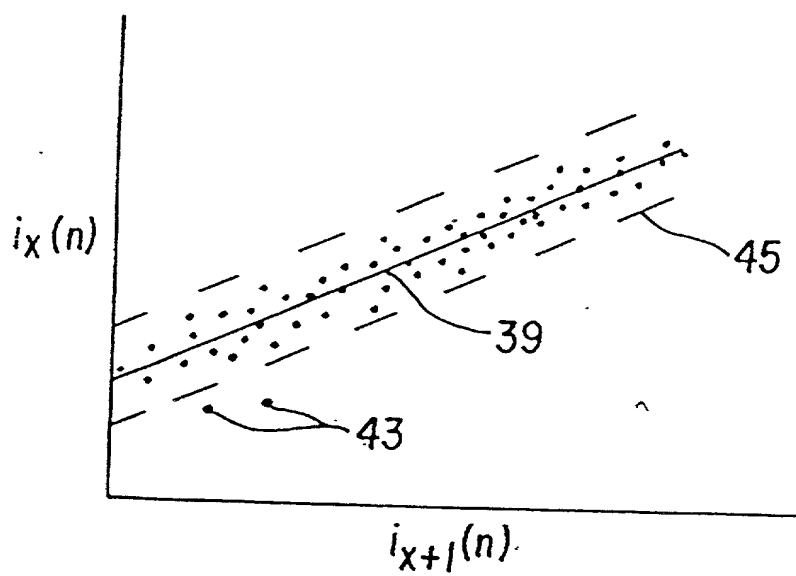


FIG. 7